# Post-1996 State Implementation Plans for Philadelphia

Phase I Submittal

# What's required for post-1996?

- Rate Of Progress (ROP) means three percent per year VOC (or equivalent) reduction for every year until the standard is attained. Milestones at 1999, 2002, 2005.
- Attainment demonstration means photochemical oxidant modeling AND adopted control measures to assure attainment

# Timing of post-1996 SIPs

- Due November 15, 1994
- · No state submitted approvable plan
- Why not? Transport issues, data collection, complex modeling, controversial regulations

### What then?

- EPA developed approach to allow approval in two phases
- Phase I to address mandated requirements and local attainment
- · Phase II to address regional transport issues

# Post-1996 Phase I Requirements

- · Phase I plan due latest during 1996
- · Implementation of measures by 1999
- · At least 9 percent reduction by 1999
- Schedule to adopt mandated measures with implementation by 1999
- Enforceable commitments for Phase II actions
- · Latest modeling results

# **Enforceable Commitments**

- Participate in consultative process to address regional transport
- Adopt additional control measures as necessary for local and regional attainment and meeting Rate of Progress requirements
- · Identify upwind reductions necessary
- Schedule for completing adoption of measures

# What makes a commitment enforceable?

- · Developed through SIP process
- · Public comment period
- · Submitted to EPA

# State Law Regarding "Commitment SIPs"

- · 60 day public comment period
- Analysis of alternatives and reasons for final strategy
- Economic impact of alternatives including agency resources
- Submission to Environmental Quality Board

# Commonwealth needs to make Phase I submittal

- Redo 15% plan: update inspection/maintenance, stationary source data, contingency measures
- Redo ROP (3%) plan as above and to address milestone years, especially 1999
- Bring "enforceable commitments" to public hearing, including schedule of adoption of unspecified measures

# Proposed 15% Plan Schedule

- · Public comment period starts June 21
- Public comment period ends July 22
- · Public hearing on July 22
- · Submit plan by July 29

# Proposed 3% /Attainment Plan Schedule

- · Public comment starts August 16
- · Public comment ends September 18
- · Public hearing September 18
- · Submit plan by September 23

# Phase II

- Assess regional strategies; refine local strategies
- · Submit plan by mid-1997
- · Final rules submitted no later than 1999

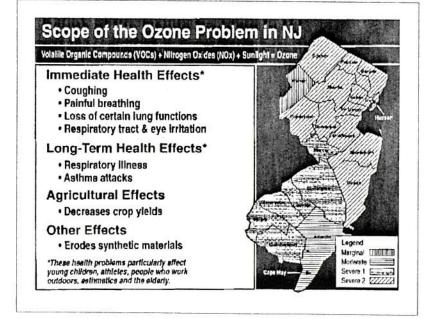
# Southeast Pennsylvania Stakeholder Workgroup

# Clean Air Act Implementation in New Jersey

New Jersey Department of Environmental Protection May 30, 1996

# Overview

- Federal Measures
- Stationary Source Measures
- Mobile Source Measures
- Attainment Planning



# Federal Measures

- Tier 1 Motor Vehicle Emission Standards
- Federal Reformulated Gasoline
- -New Jersey has opted entire state into program
- Consumer Products Rule (Proposed)
- AIMS Coatings Rule (Proposed)
- Autobody Refinishing Rule (Proposed)
- Off-Highway Rules (Proposed/Adopted)

# **Stationary Source Measures**

- New Source Review
- VOC RACT
- NOx RACT
- Operating Permits
- OTC NOx MOU
- Open Market Trading Program

# **VOC RACT**

- General
- -All limits apply state-wide
- -Originally effective in 1976, with various updates.
- VOC Storage Tanks > 2,000 Gallons
  - -White paint, conservation vent, additional controls on larger tanks
- Gasoline Transfer Operations
  - -Stage 1 and Stage 2 state-wide
- Transfer of Other VOCs
  - -Transfers into tanks require submerged fill
  - -Transfers into delivery vessels at which have potential emissions of 1 ton per year require Stage 1 (Effective May, 1995)
- Marine Vessel Loading
  - -Transfer of gasoline into marine vessels must be done through a vapor balance system (Effective February, 1991)
- Open Top Tanks and Surface Cleaners
  - -Various operational restrictions

# **New Source Review**

- Requires State of the Art for all sources
- Permits small sources
- -Boilers > 1 MMBTU/hr
- -Dry cleaning machines
- -Gas stations
- Requires emission offsets for large sources
  - -VOC or NOx > 25 tons/year must offset at 1.3 to 1

# VOC RACT (Cont)

- Surface Coating Operations
  - -Applies to all sources > 0.5 gal/hr or 2 gallons per week.
  - -Emission limits consistent with the Federal CTGs
- Large Boilers
  - -Emission limits on CO as surrogate for VOC (Effective May, 1995)
- Stationary Gas Turbines
  - -Emission limits on CO as surrogate for VOC (Effective May, 1995)
- Stationary Internal Combustion Engines
  - -Emission limits on CO as surrogate for VOC (Effective May, 1995)
- Asphalt Plants
- -250 ppmvd VOC emission limit (Effective May, 1995)
- Flares
  - -95% Control Efficiency, various operational requirements (Effective May, 1995)

# VOC RACT (Cont)

- Leak Detection and Repair
  - Applies to refineries, natural gas/gasoline processing plants, SOCMI facilities and chemical plants
  - -Various inspection and recordkeeping requirements (Updated May, 1995)
- · Cutback and Emulsified Asphalt
- -Prohibits the use of these materials in the summer
- Dry Cleaning Operations
  - -Requires the use of "dry-to-dry" machines, or the equivalent
- Natural Gas Pipelines
  - -Requires information collection on leaks and ventings (Effective October, 1994)
- Case-by-Case
- -Any remaining source with > 3 lbs/hr emission rate must submit a case-by-case RACT analysis (Effective May, 1995)

# NOx RACT (Cont)

- Other Major Facilities
- -Case-by-case Determination
- Rule Allows for Averaging
- -Multiple pieces of equipment owned by the same person
- Sources can be averaged together to demonstrate compliance
- Larger sources (> 250 MMBTU/hr) required to have CEMS
- All other sources must stack test to demonstrate compliance

# **NOx RACT**

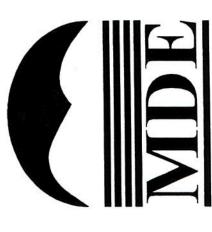
- General
- -All limits effective May, 1995
- -All limits apply state-wide
- Utility and Large Industrial Boilers
- -Limits by fuel type, firing method.
- -Limits generally more stringent than Title IV
- Smaller Industrial/Commercial Boilers
  - -Limits consistent with USEPA Guidelines
- Stationary Gas Turbines
  - -Emission limits by type/fuel
- -Limits consistent with USEPA guidelines
- Asphalt Plants
  - -200 ppmvd NOx allowable emission rate
  - -Requirement to adjust the combustion process annually
- Glass Plants
  - -Emission limits consistent with USEPA guidelines
  - -Borosilicate Glass plants required to reduce emission by 30%

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# **TO THE OZONE PROBLEM** MARYLAND'S APPROACH



May 30, 1996